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*John
Sutton*

AN ESSAY

ON

THE TONGUE,

IN FUNCTIONAL DERANGEMENT OF THE

STOMACH AND BOWELS;

WITH SOME OBSERVATIONS ON THE TONGUE'S ASPECT IN
ORGANIC DISEASE OF THE LUNGS.

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TO

JOHN BALLETT FLETCHER, Esq., M.A.,

THIS IS DEDICATED,

BY HIS FAITHFUL FRIEND

THE AUTHOR.

P R E F A C E.

EXTREME opinions have been maintained, by persons of credit and sagacity, as to the value of the tongue's appearance, for the characterising disease. An undue anxiety has been evinced to view this organ as an invariable monitor of functional derangement, or membranous disunion. A too sanguine expectation has led to disappointment, and to the unmerited neglect of an organ, which presents useful indications.

In reasoning on deranged functions, there is often much difficulty in deciding whether such change is a primary disease, or the effect of sympathetic irritation. The tongue presents no such difficulty, as it is rarely the cause of functional disturbance ; but is altered in appearance by functional aberrations and organic changes.

Observation testifies that the tissues of the tongue undergo various changes, or departures from the healthy standard : from a blanched or pallid aspect, the varying shades may be traced,

till it assumes a bright vermilion hue; from a clean and anemic condition, till it becomes coated with a foul, ordisorganised epidermis.

“It would be contrary to all common principles to suppose that the most opposite symptoms could arise from the same pathological state of the digestive organs; that a deranged state of this function, accompanied with a moist, pale, white, or coated tongue, or with a clean, dry, red appearance of this organ, should emanate from one and the same morbid condition of the digestive apparatus.”* To assume that such diverse changes are not of importance, for the investigating internal actions, would be to neglect a useful index of functional disturbance, and occasionally of organic change.

The tongue, we find, evinces, in its sense of taste, a principle of selection, in accordance with the functions of the stomach, and the necessities of the system. “Providence hath so wisely arranged the faculty of taste, that a being selects those articles only that are proper; insomuch that any thing that is grateful to the palate is innoxious to the stomach, nor is aught unpalatable that is adapted for nutrition.”†

It is not unreasonable to presume that a cor-

* Cyclop. Pract. Med., p. 609. † Halleri Physiol., p. 286.

responding sympathy attends variations of the stomach. "Disorder of the stomach is more readily perceived by adverting to the state of the tongue, which often indicates an irritable and unhealthy condition of the stomach, when no manifest symptoms of indigestion occur."* Dr. Beaumont observed, that whenever the stomach was in a morbid condition, a similar appearance of the tongue presented itself; and on the stomach resuming its healthy state, the tongue invariably became clean.†

I might extend to many pages the scattered observations of writers who have described some more prominent feature of the tongue. The want of precision in the language used, the uncertain value of the materials when so compiled, and a total want of arrangement of *facts* on this subject, render unnecessary the task of comparing isolated or casual remarks.

I was induced to enter upon this inquiry from observing that the mucous membrane and papillæ of the tongue presented varying aspects in functional disturbances of the stomach; and from remarking that the different orders of the papillæ were not simultaneously affected.

The papillæ that have chiefly been considered,

*Abernethy on Local Diseases, p. 24. †On Gastric Juice, p. 24.

are the tuberosæ, which are situated on the borders and towards the point of the tongue, characterised by a round top, supported on a short thin pedicle; the pyramidal, which are diffused over the whole of the dorsum of the tongue, being minute and tapering; and the filiform, which are seated on the apex of the tongue.

In selecting the cases, I was careful to avoid inserting any than those in which the tongue was uninfluenced by medicaments, or by disorganization of parts. No case was inserted if there was reason, subsequently, to form an opinion different to that which was previously entertained.

The tabular form of arrangement was preferred, as by such scheme a large mass of extraneous matter was avoided, and the valuable portion of the cases became more available for the purpose of analysis.

The present treatise does not embrace the subject of the tongue's appearance in organic lesions; although I have inserted a few pages relative to such aspects in diseases of the lungs. I have more especially confined myself to estimating the changes presented by the mucous membrane and papillæ of the tongue, during functional disturbance of the stomach and bowels.

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PART I.

TONGUE OF GASTRIC FUNCTIONAL DERANGEMENT.

CHAP. I.

THE FILIFORM PAPILLÆ BEING FLORID; THE ASPECTS OF THE
TONGUE, WITH THE ACCOMPANYING SYMPTOMS OF THE HEAD,
STOMACH, AND BOWELS.

TABLE OF CASES.

SYMPTOMS ACCOMPANYING.								
PAPILLÆ FILIFORM FLORID.								
No.	Sex.	Age.	Papil- lar.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Male	24	Florid	Tremulous, coated with a slimy fur	Confusion	No report	Regular	Thoracic pains
2	Female	30	Florid	Fissured, florid	No report	Gnawing pain	Costive	
3	Female	33	Florid	Anemic, tremulous	Headach	No report	Costive	
4	Female	30	Florid	Coated with a brown fur	Drowsiness	Pain.	Regular	
5	Female	31	Florid	Dry and glistening, sensibility exalted	Headach	Acidity, thirst	No report	
6	Female	38	Florid	Aphthous, florid	No report	Heat, sinking	Costive	
7	Female	17	Florid	Furred, tremulous	No report	Pain, faintness	Costive	
8	Female	44	Florid	Anemic, broad, fissured	Headach	No report	Costive	
9	Female	30	Florid	Furred, tremulous, fissured	No report	Oppression, craving	Costive	
10	Female	17	Florid	Covered with a mucous fur	Throbbing	No report	Costive	
11	Male	32	Florid	Coated with a white loose fur	No report	Heartburn, craving	No report	Fugitive pains
12	Female	19	Florid	No report	Headach	Pain	Regular	
13	Female	37	Florid	Furred	No report	Nausea	Costive	
14	Male	32	Florid	Covered with a mucous fur, red	Headach	Uneasiness	Regular	
15	Female	40	Florid	Edges clean, tremulous	Headach	Irritability	Costive	
16	Male	53	Florid	Clean, fissured transversely	Giddiness	Sinking	Relaxed	Fugitive pains
17	Female	29	Florid	Thick, tumid, flaccid, furred	No report	Oppression	Regular	
18	Female	20	Florid	Apex florid, sodden, indented, furred	No report	Faint feelings	Costive	
19	Female	18	Florid	Edges clean, anemic, tumid, tremulous	Headach	No report	Regular	
20	Female	35	Florid	Tumid	Headach	Pain, irritability	Costive	
21	Female	17	Florid	Covered with a mucous fur	Throbbing	Anorexia	Costive	

PAPILLÆ FILIFORM FLORID. SYMPTOMS ACCOMPANYING.

No.	Sex.	Age.	Papillae.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
22	Female	37	Florid	Coated with a slimy fur	No report	Anorexia, nausea	Costive	Languor, fugitive pains
23	Female	48	Florid	Covered with a thin fur, tremulous	No report	Pain after food	Regular	Languor, lumbar pains
24	Female	30	Florid	Coated with a slimy fur	No report	No report	Costive	Debility
25	Female	25	Florid	Thinly furred	No report	No report	Regular	
26	Female	32	Florid	White, edges clean	No report	Pain, heat	Regular	
27	Female	18	Florid	Edges anemic, tumid, tremulous	Throbbing	Anorexia	Regular	
28	Female	61	Florid	No report	Headach	No report	Regular	Restlessness
29	Female	40	Florid	Moist	No report	No report	Costive	
30	Female	44	Florid	Anemic, broad, fissured	Headach	No report	Costive	
31	Male	25	Florid	Fissured	Headach	Sinking:	Regular	
32	Female	42	Florid	Thinly furred, moist	Giddiness	Faint sensation	Costive	
33	Male	39	Florid	Thinly furred, red	Headach	Pain, tightness	Costive	
34	Female	22	Florid	Thinly furred, tremulous, moist, red	Giddiness	Pain, nausea	Costive	

SUMMARY.

FILIFORM PAPILLÆ FLORID OR VASCULAR,
Thirty-four Cases, of which

THE TONGUE WAS

Florid or red in	6
Anemic in	3
Furred with a slimy mucous in	18
Tremulous in	9

THE BOWELS WERE

Regular in	12
Costive in	19
Relaxed in	1
No report in	2

Headach in	7
Headach with gastric irritation in	13
Gastric irritation alone in	11
No report in	3

GENERAL SYMPTOMS.

Fugitive pains in	5
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With a red or florid appearance of the tongue, and with vascularity of the filiform papillæ, there was present giddiness, headach, and gastric uneasiness.

With an anemic condition of the tongue, the filiform papillæ being florid, headach, accompanied with constipation, seemed to prevail.

When the tongue was covered with a mucous fur, the papillæ being florid, gastric irritation and confusion of the head, amounting sometimes to pain, were observed.

A tremulous tongue, the filiform papillæ being florid, was attended with headach, nausea, and a sensation of sinking.

The head was alone affected in seven cases. The bowels were generally constipated. Fugitive pains were felt in five instances.

The stomach was complained of in twenty-four of thirty-one cases. The general gastric symptoms were described to be, a sinking, nausea, and a gnawing pain; aching, heat, and heart-burn; a feeling of oppression and tightness, with a loss of appetite.

Whether the head was the seat of pain, or the stomach, the symptoms were not urgent.

CHAP. II.

THE TUBEROSE PAPILLÆ BEING FLORID; THE ASPECTS OF
THE TONGUE, WITH THE ACCOMPANYING SYMPTOMS OF THE
HEAD, STOMACH, AND BOWELS.

TABLE OF CASES.

PAPILLÆ TUBEROSE FLORID.					SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Papillæ.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	18	Florid	Vascular, left half furred	Headach	No report	Regular	Fugitive pains
2	Female	22	Florid	White fur, edges florid	No report	No report	Regular	Pains in side
3	Female	18	Florid	No report	Headach	Pain	Costive	
4	Female	25	Florid	Vascular	Headach	Flatulency	No report	Pains in legs
5	Female	27	Florid	Vascular, tremulous	Headach	Pain, heartburn	Costive	
6	Female	34	Florid	Thinly furred	No report	Pain	Regular	Anomalous pains
7	Female	26	Florid	Furred	No report	No report	Costive	
8	Female	24	Florid	Furred	Headach	Pain	Costive	
9	Female	36	Florid	Tremulous	Headach	Thirst	Costive	
10	Female	26	Florid	Tumid, clean, tremulous	No report	No report	Relaxed	Palpitations
11	Female	31	Florid	Furred, dull red	No report	Eructings	Costive	Aphthæ occasionally
12	Female	27	Florid	No report	No report	Faintness	Costive	Pains in bones
13	Female	20	Florid	Furred, tumid	No report	Pain	Costive	
14	Female	27	Florid	No report	No report	Pain	Costive	
15	Female	22	Florid	Furred, florid	No report	Thirst	Costive	Cough
16	Female	38	Florid	No report	No report	Pain	Costive	Pains in limbs; tremor
17	Female	19	Florid	Vascular, furred	Headach	No report	Costive	
18	Female	20	Florid	Tumid	No report	Sinking	Costive	
19	Female	18	Florid	Tumid, tremulous	No report	No report	Costive	Fugitive pains
20	Female	60	Florid	Vascular, furred	Confusion	No report	Costive	Pain in right side
21	Female	26	Florid	No report	Headach	Pain	No report	
22	Female	54	Florid	Brown fur, dull red	No report	Heartburn, flatulency	No report	Pain in right side
23	Female	24	Florid	Indented	Giddiness	No report	Relaxed	
24	Female	27	Florid	Furred	No report	Pain	Regular	Dyspnœa

PAPILLÆ TUBEROSE FLORID.				SYMPTOMS ACCOMPANYING.				
No.	Sex.	Age.	Papillæ.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
25	Female	19	Florid	Vascular, furred	Occipital headach	Pain	Costive	
26	Female	21	Florid	Florid, tremulous, uniformly furred	No report	Pain	Costive	Pain in face
27	Female	48	Florid	Furred	No report	No report	Costive	Pain in legs
28	Female	37	Florid	Apex florid, edges clean, moist	Headach	Sinking	Costive	
29	Female	51	Florid	Tremulous, tumid, thinly furred	Headach	Sinking	Costive	
30	Female	42	Florid	Fissured, slightly furred	Headach	No report	No report	Pain in left side & loins
31	Female	8	Florid	Furred thinly, tremulous	No report	Pain	Costive	
32	Female	51	Florid	Furred thinly, tremulous	No report	Pain	Costive	
33	Female	19	Florid	Vascular, thinly furred	Headach	Atony	Costive	
34	Female		Florid	No report	No report	Pain	Regular	
35	Female	19	Florid	Vascular, thinly furred	Headach	No report	Costive	Fugitive pains
36	Female	38	Florid	Furred with viscid mucus	Headach	Pain, nausea	Costive	Vomiting food
37	Female	8	Florid	Florid	No report	Pain	No report	Fugitive pains
38	Female	60	Florid	Florid	No report	No report	Costive	Heart's action urgent
39	Female	20	Florid	Furred with mucous coat	Headach	No report	Costive	Palpitations
40	Female	46	Florid	Thinly furred	Giddiness	No report	Irregular	
41	Female	27	Florid	Uniform white fur	Giddiness	Distension	Costive	
42	Male	21	Florid	Slimy fur	Headach	No report	No report	Dry heat
43	Female	18	Florid	Vascular, thinly furred	Headach	No report	Costive	
44	Female	17	Florid	Thinly furred	Headach	No report	Costive	Palpitations
45	Female	21	Florid	Thinly furred	No report	Pain	Costive	Facial pains
46	Female	17	Florid	Thinly furred	No report	Nausea	No report	
47	Female	22	Florid	Thinly furred, sodden, tremulous	No report	No report	No report	

PAPILLÆ TUBEROSE FLORID.					SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Papillæ.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
48	Male	1	Florid	Slimy fur	Throbbing headach	Nausea	Regular	Palpitations
49	Female	19	Florid	Sodden at the edges	No report	Pain	Regular	
50	Female	27	Florid	No report	No report	Anorexia, faint feelings	Costive	Pains in bones
51	Female	15	Florid	Slimy dryish fur	Headach	Pain	Costive	
52	Female	20	Florid	Slimy fur, anemic	No report	Pain	Regular	Pain in side
53	Female	17	Florid	Tumid, tremulous	Headach	Distension, sinking	No report	
54	Female	47	Florid	Furred	No report	Distension	Costive	Fugitive pains
55	Male	4	Florid	Furred, apex and edges clean & moist	No report	No report	No report	Tumid body
56	Female	34	Florid	White fur	No report	No report	Regular	Dyspnoea, cough
57	Female	22	Florid	Moist fur, tremulous	Headach	Sinking after food	Regular	Langour, pains in legs
58	Female	30	Florid	Sides and edges clean, mucous coat	Giddiness, headach	Nausea, pain, fulness, anorexia	Costive	Fugitive pains

SUMMARY.

TUBEROSE PAPILLÆ FLORID, OR VASCULAR,

Fifty-eight Cases ; of which

THE TONGUE WAS

Florid in	15
Anemic in	1
Furred with slimy mucus in	38
Tremulous in	11

THE BOWELS WERE

Regular in	10
Costive in	34
Relaxed in	3
Irregular in	1
No report of	10

Headach in	11
Headach with gastric irritation in	21
No report of	9

GENERAL SYMPTOMS.

Fugitive pains in	20
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With a red or florid tongue, and with vascular tuberosæ papillæ, the head was chiefly affected, then the stomach, and occasionally fugitive muscular pains were felt.

The tongue being anemic, with florid tuberosæ papillæ, gastric pain and pain in the side were felt.

When the tongue was covered with a mucous fur, the gastric symptoms, as pain and occasional nausea, prevailed; in a considerable number there was headach, giddiness, and confusion; and in twenty of fifty-eight cases fugitive pains were observed.

With a tremulous tongue, headach or pain at the stomach, with a sensation of sinking, were experienced; and occasionally palpitation, fugitive pains, and aching of the legs.

The head was alone affected in eleven cases.

The bowels were generally costive. Fugitive pains were felt in twenty instances.

The stomach was complained of in thirty-eight of forty-nine cases. The general gastric symptoms were pain, flatulency, distension or tightness, nausea, sinking, and faintness.

CHAP. III.

THE TUBEROSE AND FILIFORM PAPILLÆ BEING FLORID ; THE
ASPECTS OF THE TONGUE, WITH THE ACCOMPANYING SYMP-
TOMS. ALSO THE STATE OF THE HEAD, STOMACH, AND
BOWELS.

TABLE OF CASES.

TUBEROSE AND FILIFORM PAPILLÆ FLORID.					SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Papillæ.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	13	Florid	Furred, fissured, tremulous	No report	No report	No report	Pain in left side
2	Male	28	Florid	Furred	No report	No report	Relaxed	Pain in left side
3	Female	31	Florid	Furred, fissured	No report	No report	Costive	Oppressive pain of stomach, languor
4	Female	22	Florid	Furred, tumid	No report	No report	Costive	Pain in body
5	Female	26	Florid	Furred, fissured, tremulous	No report	Pain	Costive	Pain in left arm
6	Female	19	Florid	Furred, florid	Headach, frontal	Pain, sinking	Regular	
7	Female	21	Florid	Furred, tremulous	Headach	Flatulence, thirst	Costive	Pain after mastication
8	Female	17	Florid	Furred	Headach	Gastric cough	Costive	
9	Female	35	Florid	Furred, indented	No report	Pain, increased sensibility	Costive	
10	Female	33	Florid	Furred, tremulous, vascular, edges clean	No report	Pain	Costive	
11	Female	29	Florid	Furred, tremulous, tumid	Headach	Pain	Costive	
12	Female	54	Florid	Furred, fissured	No report	Pain, oppression	Regular	
13	Female	30	Florid	Furred, vascular	Headach	No report	Costive	Pain in shoulder
14	Female	33	Florid	Furred	Headach	Pain	Costive	
15	Female	51	Florid	Furred, tremulous	No report	Pain	Costive	
16	Female	28	Florid	Moist	No report	Pain	Costive	Palpitation
17	Female	20	Florid	Furred, edges florid, moist	Headach	Increased irritability	Relaxed	
18	Female	21	Florid	Clean, red	No report	Sinking	Variable	
19	Female	28	Florid	Vascular	Headach	No report	Costive	Hysterics
20	Male	20	Florid	Indented	Headach	No report	Costive	Dyspnœa
21	Female	25	Florid	Furred	Headach	Nausea	No report	Pains fugitive, tremor
22	Female	30	Florid	Clean, tremulous, viscid	No report	Pain	Regular	

TUBEROSE AND FILIFORM PAPILLÆ FLORID.				SYMPTOMS ACCOMPANYING.			
<i>Sex.</i>	<i>Age.</i>	<i>Papill- læ.</i>	<i>Tongue's Aspect.</i>	<i>Head.</i>	<i>Stomach.</i>	<i>Bowels.</i>	<i>General Symptoms.</i>
23 Male	22	Florid	Furred, florid, moist	No report	Pain	Regular	Pain in shoulder
24 Female	19	Florid	Furred, tumid	Headach	Nausea, increased sensitivity	Costive	
25 Female	8	Florid	Furred slightly	Headach	Pain	No report	
26 Female	24	Florid	Furred slightly	No report	Pain	Costive	Pain in shoulder
27 Female	8	Florid	Furred	Headach	Pain	No report	
28 Female	8	Florid	Furred surface, sides clean	No report	Pain	No report	
29 Female	8	Florid	Furred thinly	Headach	No report	Costive	
30 Female	40	Florid	Furred thinly	No report	Uneasiness, sinking	Regular	
31 Female	24	Florid	Apex florid, vascular, furred	Throbbing	No report	Regular	Pain in chest
32 Female	39	Florid	Furred slimy mucus, vascular	No report	Pain	No report	Tremor
33 Female	39	Florid	Tremulous, clean	Giddiness	Pain	Costive	
34 Female	13	Florid	Furred, fissured, tremulous	Headach	Pain	Costive	
35 Female	20	Florid	Tumid	Headach	Irritability	No report	
36 Female	16	Florid	Tremulous, furred	Headach	No report	Regular	Pain in hip
37 Female	23	Florid	No report	Headach	Nausea	Regular	Pain, palpitation
38 Female	17	Florid	Furred, tremulous	No report	Pain	Costive	
39 Female	23	Florid	Furred, vascular	Headach	Flatulent pain	Regular	Pain in legs and loins
40 Female	44	Florid	Furred, tremulous	Headach	Anorexia	Costive	Pain in legs and loins
41 Male	19	Florid	Furred slimy mucus	Headach	Pain	Regular	
42 Female	25	Florid	Furred thinly	No report	No report	No report	Fugitive pains
43 Female	20	Florid	Furred, anemic	Headach	Pain after food	Costive	Fugitive pains
44 Female	38	Florid	Furred	Throbbing headach	No report	Costive	Palpitation, hysterics
45 Female	16	Florid	Clean, vascular	No report	No report	Costive	Fugitive pains
46 Female	51	Florid	Tremulous, fissured	No report	Anorexia	No report	Fugitive pains

SUMMARY.

FLORID FILIFORM AND TUBEROSE PAPILLÆ,

Forty-six Cases ; of which

THE TONGUE WAS

Florid in	11
Anemic in	1
Furred with slimy mucus in	33
Tremulous in	12

THE BOWELS WERE

Regular in	10
Costive in	24
Relaxed in	2
Irregular in	1
No report of	9

Headach in	4
Headach with gastric irritation in	21
Gastric irritation in	12
No report in	9

GENERAL SYMPTOMS.

Fugitive pains in	19
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With a florid or vascular tongue, the filiform and tuberosæ papillæ being florid, there seemed to be an equal tendency to head, gastric, and fugitive painful sensations.

When the tongue was anemic and furred, and the papillæ florid, there was pain in the head, stomach, and about the shoulders and scalp.

With a furred state of the tongue, and with florid papillæ, there were gastric pains, with a sensation of nausea and sinking; next in degree were the head symptoms; then fugitive pains.

A tremulous tongue was accompanied with gastric pain, giddiness, or headach; and, in two or three instances, with fugitive pains.

The head was alone affected in four of thirty-seven cases, the bowels being generally constipated. Fugitive pains in nineteen of forty-six cases.

The stomach was complained of in thirty-three of thirty-seven instances. The gastric symptoms were, pain, nausea or sinking, tightness, distension, or fullness.

CHAP. IV.

THE FILIFORM AND TUBEROSE PAPILLÆ BEING PROMINENT
AND ANEMIC; THE ASPECTS OF THE TONGUE, WITH THE
ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

FILIFORM AND TUBEROSE PAPILLÆ PROMINENT AND ANEMIC. SYMPTOMS ACCOMPANYING.								
No.	Sex.	Age.	Papillæ.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	23	Anemic	Furred	Pain	Nausea	Costive	
2	Female	21	Anemic	Furred, tremulous	Headach	Faintness	Irregular	
3	Female	32	Anemic	Clean	Giddiness, throbbing	Nausea, aching, anorexia	Costive	Langnor
4	Female	29	Anemic	Furred, apex moist	Headach	Sinking	Regular	Pallor
5	Female	19	Anemic	Rough with papillæ	No report	Pain	Costive	
6	Female	20	Anemic	Tumid	No report	Pain	Costive	Langnor
7	Female	20	Anemic	Clean, moist	Headach	Pain, nausea	Costive	
8	Female	15	Anemic	Furred dry coat, vascular	No report	No report	Regular	
9	Female	19	Anemic	Clean, moist	No report	Irritability	Regular	
10	Female	30	Anemic	Clean at edges, fissured	No report	Faint feelings after food	Regular	
11	Female	16	Anemic	No report	Headach	No report	Costive	Pain in side
12	Female	20	Anemic	Tumid	No report	No report	Costive	

SUMMARY.

ANEMIC AND PROJECTING OR PROMINENT PAPILLÆ,

Twelve Cases; of which

THE TONGUE WAS

Tumid in	2
Furred with mucus in	4
Clean in	5
No report in	1

THE BOWELS WERE

Regular in	4
Costive in	7
Irregular in	1
Headach in	1
Headach with gastric irritation in	5
Gastric irritation in	4

GENERAL SYMPTOMS.

Fugitive pains in	1
No report in	11

The stomach was complained of in nine of ten cases; the symptoms were, pain, nausea, faintness, aching, and sinking.

Headach alone was felt in one of ten cases. General pains in only a single instance.

CHAP. V.

TABULAR ARRANGEMENT.

TABULAR ARRANGEMENT.

	<i>Florid filiform papillæ.</i>	<i>Florid tuberosa papillæ.</i>	<i>Florid filiform & tuberosa papillæ.</i>	<i>Anemic filiform & tuberosa papillæ.</i>
<i>Number of cases</i>	34	58	46	12
TONGUE'S ASPECT.				
Florid or red tongue	6	15	11	..
Anemic	3	1	1	..
Sodden or tumid .....	..	..	..	2
Furred with slimy mucus	18	38	33	4
Furred white and dry .....	..	..	..	..
Fissured .....	..	..	..	..
Tremulous	9	11	12	..
Clean .....	..	..	5	..
Pale .....	..	..	..	..
Dry .....	..	..	..	..
Glazed .....	..	..	..	..
Edges clean .....	..	..	..	..
No report .....	..	..	1	..
BOWELS.				
Regular	12	10	10	4
Costive	19	34	24	7
Relaxed	1	3	2	..
Irregular .....	..	1	1	1
No report	2	10	9	..
HEAD SYMPTOMS.				
Headach	7	11	4	1
Headach with gastric irritation	13	17	21	5
Gastric irritation	11	21	12	4
No report	3	9	9	2
GENERAL SYMPTOMS.				
Fugitive pains	5	20	19	1
Palpitation .....	..	..	..	..
No report .....	..	..	..	11

SUMMARY.

	<i>Stomach.</i>	<i>Head.</i>	<i>Pains.</i>	<i>Constipation.</i>
Florid filiform papillæ ..	24 of 31	7 of 31	5 of 34	19 of 32
Florid tuberosæ papillæ ..	38 of 49	11 of 49	20 of 58	34 of 48
Florid filiform & tub. pap.	33 of 37	4 of 37	19 of 46	24 of 37
Anemic filiform & tub. pap.	9 of 10	1 of 10	1 of 12	7 of 12
	104 of 127	23 of 127	45 of 150	84 of 129

PAPILLÆ IN ORDER OF GASTRIC IRRITATION.

Anemic papillæ.
 Florid filiform and tuberosæ papillæ.
 Filiform papillæ.
 Tuberosæ papillæ.

PAPILLÆ IN ORDER OF HEADACH.

Filiform papillæ.
 Tuberosæ papillæ.
 Florid filiform and tuberosæ papillæ.
 Anemic papillæ.

PAPILLÆ IN ORDER OF FUGITIVE PAINS.

Florid papillæ.
 Tuberosæ papillæ.
 Filiform papillæ.
 Anemic papillæ.

CHAP. VI.

CONSIDERATIONS AS TO THE DEVELOPMENT OF THE
PAPILLÆ, FILIFORM OR TUBEROSE, BEING A TEST OF
GASTRIC IRRITABILITY.

Gastric irritation was observed in greatest intensity when the filiform and tuberosæ papillæ were prominent and anemic. In nine of ten instances the stomach was the seat of irritation, while only in an individual case did headach appear, or fugitive pains in more than one case of twelve.

The stomach was complained of in one hundred and four of one hundred and twenty-seven instances; whereas head-symptoms existed but in twenty-three of one hundred and twenty-seven, and fugitive pains in forty-five of one hundred and fifty.

Although, with intensity of gastric irritation, there was no corresponding degree of headach, or fugitive pains, yet, when the papillæ were florid, there appeared to be a tendency to fugitive pains; but it must be observed, that there was also a corresponding increase in the number of constipated habits.

It seems to result from these premises, that when the papillæ were prominent, florid, or anemic, the stomach was the seat of the irritation, and this with-

out the apparent sympathy of other parts with such disturbance.

And further, that when gastric irritation was most intense, there was a minimum degree of headach.

Hence, the papillæ, whether florid or anemic, seem to indicate gastric irritation, in proportion to their prominence or elevation.

CHAP. VII.

CONSTIPATION NOT A PROMINENT SYMPTOM WHEN THE PAPILLÆ, FILIFORM OR TUBEROSE, WERE DEVELOPED, WHETHER THEY WERE FLORID OR ANEMIC.

Constipation existed when the papillæ were florid, especially with the florid tuberosæ papillæ; with which latter papillæ fugitive pains appeared to preponderate, considerably, over the similar symptoms produced by the filiform and anemic papillæ.

Again, it appears that fugitive pains were felt only in five of thirty-four cases with the florid filiform papillæ, whereas the bowels were stated to be costive in nineteen of thirty-two. With the anemic papillæ, although the bowels were costive in seven of twelve instances, yet only in one of twelve did fugitive pains coincide.

Hence, it would seem, that constipation was unattended with any well-defined symptoms, when the papillæ were prominent, florid, or anemic.

CHAP. VIII.

APPEARANCES OF THE TONGUE WITH A FLORID OR ANEMIC
STATE OF THE PAPILLÆ; AND THE SYMPTOMS OF THE HEAD,
STOMACH, AND THE GENERAL SENSATIONS ACCOMPANYING
THEM.

APPEARANCES OF THE TONGUE WITH A FLORID OR ANEMIC STATE OF THE PAPILLÆ; AND
THE SYMPTOMS OF THE HEAD, STOMACH, AND THE GENERAL SENSATIONS
ACCOMPANYING THEM.

<i>Tongue's appearance.</i>	<i>Head symptoms.</i>	<i>Stomach symptoms.</i>	<i>General symptoms.</i>
TONGUE RED OR FLORID. Filiform papillæ florid Tuberose papillæ florid Filiform and tuberose papillæ florid	Giddiness or headach Headach chiefly _____ or _____ Headach _____	Gastric uneasiness Pain _____ or _____ Pain _____	Fugitive pains Fugitive pains _____
TONGUE ANEMIC. Filiform papillæ florid Tuberose papillæ florid Filiform and tuberose papillæ florid	Headach _____	Pain _____ Pain _____	Constipation Pain in side _____ Pain in scalp and shoulders _____
TONGUE COATED WITH SLIMY FUR. Filiform papillæ florid Tuberose papillæ florid Filiform and tuberose papillæ florid	Confusion or pain Giddiness, confusion or headach Pain or headach _____	Pain or irritation Pain or nausea Pain, nausea or sinking _____	Fugitive pains Fugitive pains _____
TONGUE TREMULOUS. Filiform papillæ florid Tuberose papillæ florid Filiform and tuberose papillæ florid Papillæ anemic	Headach Headach Headach or giddiness Headach _____	Nausea or sinking Sinking Pain _____ Faintness _____	Fugitive pains occasionally Fugitive pains occasionally _____
TONGUE TUMID. Papillæ anemic	Headach _____ or _____	Pain _____	
TONGUE COATED WITH A DRY FUR. Papillæ anemic	Headach _____	Sinking or faintness	

With a *red or florid tongue*, the filiform papillæ being florid ; head and gastric symptoms were present, but not fugitive pains. The tuberosæ papillæ being vascular ; head symptoms prevailed, or alternated with gastric uneasiness, or fugitive pains.

With an *anemic tongue*, and a florid state of the filiform papillæ ; there was headach with constipation. The tuberosæ and filiform papillæ being florid ; gastric and fugitive pains were experienced.

When the *tongue was covered with a slimy fur*, and the papillæ were florid, the filiform papillæ being vascular ; was attended with gastric irritation, or pain, with confusion or headach. Gastric pain, giddiness, confusion, or headach and fugitive pains, coincided with a florid state of the tuberosæ papillæ ; or the filiform and tuberosæ papillæ being together vascular.

With a *tremulous tongue*, whether the papillæ were florid or anemic ; headach prevailed, accompanied with gastric pain, nausea, or sinking, and occasionally with fugitive pains, especially with the tuberosæ papillæ.

A *tumid tongue* with anemic papillæ ; was attended with headach or gastric pain.

The *tongue coated with a dry fur*, and the papillæ being anemic ; headach and gastric sinking or faintness were observable.

SUMMARY

OF THE APPEARANCES OF THE TONGUE; AND
INFERENCE.

When the filiform papillæ were florid, whether the tongue was red, anemic, covered with a slimy fur, or tremulous; head and gastric symptoms were only noticed, accompanied with constipation. Fugitive pains were not complained of.

When the tuberosæ papillæ were florid, and the tongue was red, anemic, furred with a slimy mucus, or tremulous; gastric with fugitive pains chiefly prevailed; also occasional giddiness or headach.

When the papillæ were anemic, whether the tongue was tremulous, tumid, or coated with a dry fur; headach and gastric pain, or faintness, were experienced.

Thus we are again led to conclude that a prominent state of the papillæ, filiform or tuberosæ, is an index of gastric irritation; and that the occasional accompanying symptoms are clearly referable to the functional derangement of the *stomach*.

CHAP. IX.

DEDUCTIONS FROM THE FLORID, ANEMIC, AND PROMINENT STATE OF THE FILIFORM AND TUBEROSE PAPILLÆ.

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1. That a prominent state of the papillæ, whether florid or anemic, was attended solely with gastric irritation.
 2. That the prominence or development of the papillæ was in proportion to the intensity of gastric irritation.
 3. That constipation was not attended with any well-defined symptoms, under such condition of the papillæ.
-

INFERENCES FROM THE APPEARANCES OF THE TONGUE WHEN THE PAPILLÆ, FILIFORM OR TUBEROSE, WERE FLORID OR ANEMIC.

1. With a florid state of the filiform papillæ, whether the tongue was red, anemic, covered with a slimy fur, or tremulous, head and gastric symptoms were only experienced.
2. The tuberose papillæ being florid, and the tongue red, anemic, furred with a slimy mucus, and tremu-

lous, gastric with fugitive pains prevailed ; occasionally complicated with giddiness or headach.

3. When the papillæ were anemic, the tongue being tremulous, tumid, or coated with a dry fur, headach and gastric pain were observed.

PART II.
TONGUE OF INTESTINAL FUNCTIONAL DE-
RANGEMENT.

CHAP. I.

THE TONGUE COVERED WITH A UNIFORM FUR ; ALSO THE
ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

EPIDERMIS FURRED UNIFORMLY.				SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Male	27	No report	Headach	Nausea	Costive	Pain in duodenum
2	Male	25	Pallid	Headach	No report	Costive	Pains rheumatic
3	Female	63	Sodden	Headach	No report	Costive	
4	Female	38	Edges fissured	Headach	No report	Costive	Drowsiness
5	Male	47	No report	Confusion	No report	Costive	Debility
6	Male	28	Concave	No report	No report	Costive	Bilious feelings
7	Female	38	No report	Headach	No report	Costive	Pains fugitive
8	Female	63	No report	No report	No report	Costive	Pains fugitive
9	Female	21	Fissured	No report	No report	Costive	Bilious sensations
10	Female	33	No report	No report	No report	Costive	Bilious sensations
11	Female	48	No report	No report	Thirst	Costive	
12	Female	60	No report	No report	No report	Costive	Pain in hepatic region
13	Male	39	No report	No report	No report	Costive	Palpitations
14	Female	29	No report	No report	Exalted sensibility	Costive	Hysterics
15	Female	18	No report	No report	Nausea	Regular	Variable appetite
16	Female	41	Fissured	No report	Pain		
17	Male	46	Sodden, broad, flaccid	No report	Acidity		Fugitive pains, fulness of the right hypochondrium
18	Female	17	No report	Headach	No report		
19	Female	35	No report	No report	Sinking		
20	Female	42	No report	Headach	No report		
21	Female	52	No report	Headach	No report		
22	Male	35	Apex glistens	No report	Faint feelings	Costive	Giddiness, palpitations
23	Male	32	Broad	Headach	No report	Costive	
24	Male	11	No report	Headach	Nausea	Costive	

SYMPTOMS ACCOMPANYING.

EPIDERMIS FURRED UNIFORMLY.

No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
25	Female	19	Anemic	No report	No report	Regular	Palpitations, dyspnœa
26	Female	48	Broad	No report	Pains	Costive	Cramps
27	Female	21	Tremulous	Headach	No report	Costive	Giddiness, pain in legs
28	Female	39	Fissured, sodden	Headach	No report	Costive	Bilious sensations
29	Female	14	Large	Headach	No report	Costive	Palpitations
30	Female	19	No report	No report	Pains	Regular	
31	Female	54	No report	No report	Acidity	Costive	Fugitive pains
32	Female	13	Broad	No report	No report	Costive	Spasms muscular
33	Male	33	Edges clean	No report	No report	Relaxed	Pain in hepatic region
34	Female	23	Edges and apex clean	Giddiness	No report	Regular	
35	Male	34	No report	Occipital headach	No report	Costive	Hepatic fulness
36	Male	35	No report	Pain	No report	Costive	
37	Male	69	No report	No report	No report	No report	Dyspnœa
38	Female	16	No report	No report	No report	Regular	Pains in limbs
39	Male	26	Tremulous	No report	Pain, heat	Relaxed	Pyrosis
40	Male	21	No report	No report	Pain	Costive	Palpitations
41	Female	24	Tremulous, fissured	Headach	No report	Variable	Pains, dyspnœa
42	Female	23	No report	No report	No report	Regular	Pains general
43	Female	23	No report	Headach	Nausea, sinking	Regular	Tremor, giddiness
44	Female	43	No report	No report	No report	Costive	Pains in chest and back
45	Male	30	No report	No report	No report	Costive	Pain in arm, hepatic uneasiness
46	Female	32	No report	No report	No report	Costive	Pain in right side and shoulder
47	Male	20	Broad, thick	No report	No report	Regular	Pain in shoulder, debility
48	Female	28	No report	Giddiness	Oppression	Regular	

SYMPTOMS ACCOMPANYING.

EPIDERMIS FURRED UNIFORMLY.

No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
49	Female	23	No report	Headach	No report	Costive	
50	Male	19	No report	No report	No report	Costive	Eruption at angles of the mouth
51	Female	35	No report	No report	Pain	Costive	
52	Male	33	Broad, sodden	No report	Sinking	Costive	Pains in limbs
53	Male	28	Anemic	No report	Flatulent	Costive	Nervous depression
54	Female	27	No report	No report	Heartburn	Costive	
55	Female	40	Fissured	No report	No report	Costive	Pain in right side
56	Female	24	Broad	No report	No report	Costive	Pains in legs
57	Male	23	No report	No report	Pain	Regular	
58	Male	23	No report	No report	Oppression	No report	
59	Female	13	Edges clean	Throbbing	No report	Costive	Palpitation
60	Female	45	No report	Headach	No report	Costive	
61	Male	53	No report	No report	Pain	Costive	Anomalous feelings
62	Female	50	No report	Headach	Heat	Costive	
63	Female	43	No report	No report	No report	Costive	
64	Male	50	Fissured, tremulous	No report	No report	Regular	Pains in loins
65	Male	50	No report	Headach	Flatulency	Costive	Alarmed feelings
66	Female	23	Fissured	No report	No report	Costive	Pains in extremities
67	Female	64	No report	Headach	No report	Costive	Pains thoracic, drowsy
68	Female	35	No report	No report	No report	Costive	Pains in knees
69	Female	27	No report	No report	No report	Costive	
70	Female	15	No report	Headach	Flutterings	Costive	
71	Female	33	Fissured	No report	No report	Costive	Throat erythematous.
72	Female	10	No report	No report	Anorexia, sinking	Costive	Worms
73	Female	42	Sodden	No report	Flatulency	Costive	Hysterics

EPIDERMIS FURRED UNIFORMLY.

SYMPTOMS ACCOMPANYING.

No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
74	Male	28	Broad, tremulous	Giddiness	No report	Costive	Pains in descending, colour
75	Female	37	No report	Painful	Oppression	Costive	Pains in joints
76	Male	23	No report	Headach	Pain	Costive	
77	Female	19	Fissured, broad	Headach	No report	Costive	Pain in body
78	Male	24	Broad, tremulous	Headach	No report	Variable	Numbness of surface
79	Female	49	No report	Headach	Oppression	Costive	
80	Female	28	No report	No report	No report	No report	Pain in knee
81	Female	22	No report	No report	No report	Costive	Pain in sides
82	Female	60	No report	No report	Pain	Costive	
83	Female	43	Tumid	Headach	Nausea	Costive	
84	Female	18	Fissured	No report	No report	Costive	Thoracic pain
85	Female	30	No report	No report	Fluttering	Costive	
86	Male	35	No report	Headach	No report	Costive	Tonsils swollen
87	Female	25	No report	No report	No report	Costive	Debility
88	Female	58	No report	No report	Pain, nausea	Variable	Palpitations
89	Female	30	No report	No report	No report	Costive	Facial and fugitive pains
90	Female	15	Edges clean, moist	Headach	No report	Regular	
91	Male	24	Tremulous	Confusion	No report	Regular	
92	Female	28	Tumid	No report	Sinking	Costive	Palpitations
93	Female	14	No report	No report	Pain after food	Costive	Faint feelings
94	Female	16	No report	Headach	Nausea	Costive	
95	Male	52	No report	No report	Pain, heartburn	Costive	
96	Female	67	Tremulous	Headach, giddiness	No report	Costive	
97	Female	17	Tremulous	No report	Gnawing sensations	Costive	

EPIDERMIS FURRED UNIFORMLY.				SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
98	Female	36	No report	Headach	No report	Regular	Debility Dyspnœa
99	Male	55	No report	No report	Fluttering	Costive	
100	Female	33	Broad, indented	Headach	Pain	Regular	
101	Female	26	Edges clean	No report	Sinking, flatus	Costive	Pallor Pain in legs and right side
102	Female	56	No report	No report	Oppression	Regular	
103	Female	18	No report	Headach	No report	Costive	
104	Female	16	Tumid, tremulous	Headach	No report	Costive	Flatus
105	Female	40	Tremulous, fissured	Headach	Throbbing	Regular	
106	Female	35	No report	Headach	Pain	Regular	
107	Female	30	Tremulous, broad	No report	Oppression, sinking	Regular	Pain in limbs
108	Female	42	Tumid	No report	Fluttering, flatus	Costive	
109	Female	53	No report	No report	No report	Costive	
110	Female	20	Anemic	No report	Pain, faintness	Regular	Pain in limbs
111	Male	27	Dull red	No report	Oppression	Costive	
112	Female	40	Sodden, indented	No report	Pain	Costive	
113	Female	17	No report	Headach	Pain	Regular	Pain in limbs Pain in right side Pain in left leg
114	Female	24	Sodden, enlarged, indented	Headach	Pain	Regular	
115	Female	22	Tremulous	Headach	No report	No report	
116	Female	34	White	No report	No report	Costive	Debility, palpitation Hysterics
117	Male	58	Tremulous	No report	No report	Costive	
118	Female	42	Tumid	No report	Fluttering, tremor	Costive	
119	Female	18	Tremulous, anemic	No report	Sinking	Costive	Hysterics, pain under sternum Pain in left side
120	Female	49	No report	No report	Oppressed with food	Costive	
121	Female	31	Fissured, tremulous	No report	No report	No report	
122	Female	22	No report	No report	Pain after food	Costive	

EPIDERMIS FURRED UNIFORMLY.

SYMPTOMS ACCOMPANYING.

No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
123	Male	50	Slimy mucus	No report	No report	Costive	
124	Male	21	No report	No report	No report	Costive	Pain in left side
125	Female	37	Brown mucus	Headach	No report	Regular	Debility
126	Female	20	Edges clean	Headach	Pain	No report	
127	Female	63	Slimy mucus	No report	Pain	Costive	Cough, expectoration
128	Female	25	White fur	No report	Sinking	Costive	
129	Female	22	White fur	No report	No report	Costive	Pain in left side
130	Female	29	Anemic	Headach	No report	Costive	
131	Female	31	Slimy fur, edges clean	No report	Anorexia, sinking	No report	Debility
132	Male	22	Light white fur	No report	No report	No report	Pains in back and loins
133	Female	21	Edges clean	Headach	No report	No report	Pain in right side
134	Male	32	Broad, edges clean	No report	No report	Costive	Pain in knees
135	Female	46	White fur	No report	Pains, heat	Costive	
136	Female	14	Pale, covered with a dry white coat	Giddiness	Nausea	Regular	
137	Female	26	Sides clean and moist	No report	Oppression or sinking after food	Costive	Fluttering, dyspnœa
138	Female	53	Sodden and indented	No report	Nausea, anorexia	Costive	
139	Male	35	Slimy fur, vascular	No report	Pain, eructings	Costive	
140	Female	32	Anemic	Headach	No report	Costive	
141	Female	40	Anemic	No report	Pain after food	Costive	

SUMMARY.

TONGUE COVERED WITH A UNIFORM MOIST FUR,
One Hundred and Forty-one Cases ; of which

THE TONGUE WAS

Florid or red in	1
Anemic in	6
Sodden or tumid in	11
Fissured in	12
Tremulous in	13

THE BOWELS WERE

Regular in	24
Costive in	102
Relaxed in	2
Irregular in	4
No report of	9

Headach in	34
Headach with gastric irritation in	19
Gastric irritation in	49
No report of	39

GENERAL SYMPTOMS.

Fugitive pains in	42
Palpitations in	8

With a florid or red tongue, there was gastric oppression and costive bowels.

When an anemic condition of the tongue was present, we noticed gastric pain, headach, palpitation, and constipated bowels.

Tongue sodden or tumid, was attended with headach, or gastric pain, nausea, acidity, palpitation, fluttering, and costiveness.

Tongue fissured. Headach, occasional gastric pain, or a sinking sensation, bilious feelings and fugitive pains, with costive bowels, were noticed.

Tongue tremulous. The symptoms were headach or confusion, occasional gastric pain, flatulency, a gnawing sensation, and fugitive pains of the lower extremities.

It is to be remarked that fissures were observed in twelve instances, nor elsewhere, excepting when the tongue was coated with a uniform dry fur.

The tongue covered with a uniform mucous fur, was attended with bilious feelings, pains in the duodenal region, hysterical symptoms, flutterings, gnawings, palpitations, and a host of anomalous and indescribable sensations.

It is in this aspect of the tongue that it has been

observed to be chapt, furrowed, fissured, cleft, chinked, and sulcous ; or coated, crusted, foul, furred, or loaded ; according to the consistency or tenuity of the mucous secretion, with which its surface may be covered.

The head was alone complained of in thirty-four instances ; fugitive pains being felt in forty-two cases of one hundred and forty-one. The bowels were generally costive.

Of forty-eight cases of one hundred and forty-one, in which the head was affected coincidently with the bowels, thirty-three of these were of a constipated habit ; in thirteen of forty-eight the bowels were stated to be regular ; and in two only were they variable.

We find that the stomach evinced local irritation in sixty-eight of one hundred and two cases.

The pain complained of, if felt in the head, was not experienced in the stomach or elsewhere ; this was not invariably the case, yet so frequent as to merit notice.

CHAP. II.

EPIDERMIS COVERED WITH A UNIFORM DRY FUR; WITH THE
ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

EPIDERMIS COVERED WITH A UNIFORM DRY FUR.				SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	17	Dry fur, sodden	No report	No report	Costive	Palpitation, dyspnea
2	Female	61	Dry fur, fissured	No report	Gnawing	Costive	Pains muscular
3	Female	46	Dry fur and white	No report	No report	Regular	Pains between shoulders
4	Female	49	Dry fur, white, edges clean	No report	Sinking	Costive	
5	Female	23	Dry fur and brown	Headach	No report	Costive	Hysterics
6	Female	35	Dry fur, tremulous	Confusion	Heat	Costive	Pains between shoulders
7	Female	22	Dry fur and white, fissured	No report	No report	Variable	Pains fugitive
8	Female	63	Dry fur, fissured	No report	Tension after food	Costive	Rigors
9	Female	19	Dry fur & brown, pale or anemic	No report	No report	No report	Pains fugitive
10	Male	24	Dry fur	No report	Tension	Costive	Pain hepatic
11	Female	34	Dry fur	No report	Pain	Costive	Tremors
12	Female	31	Dry fur	No report	Nausea	Relaxed	Pains fugitive
13	Male	18	Dry fur, edges clean	Headach	No report	Costive	Pains in legs
14	Female	50	Dry fur	Headach	Nausea	Regular	Pains in legs
15	Female	22	Dry fur	No report	No report	Regular	Pains in body
16	Male	47	Dry in the centre	No report	Pain	No report	
17	Male	17	Dry fur	No report	No report	Costive	Pains fugitive

SUMMARY.

TONGUE COVERED WITH A UNIFORM DRY FUR,

Seventeen Cases ; of which

THE TONGUE WAS

Sodden in	1
Fissured in	3
Tremulous in	1
Anemic in	1
Edges clean in	2
No report of	9

THE BOWELS WERE

Regular in	3
Costive in	10
Relaxed in	1
Irregular in	1
No report in	2

Headach in	2
Headach with gastric irritation in	2
Gastric irritation in	7
No report of	6

GENERAL SYMTOMS.

Fugitive pains in	12
-------------------	----

It appears that the stomach was affected in nine of eleven cases. That headach alone was felt in two of eleven, but that fugitive pains were observed in twelve of seventeen instances; showing an excess in the proportion of fugitive painful sensations. The bowels were generally costive.

The papillæ, conicæ or pyramidal, have their points directed backwards; like the filiform and tuberosæ papillæ, they become erect, and assume a rough aspect; but they differ from these papillæ, in not presenting a vascular or injected appearance.

The instances in which they were observed to be erect, and coated with a dry fur, were in cases characterized by symptoms of defective secretion, either of the stomach or other organ; fugitive pains being felt in a most intense degree, but headach was seldom experienced.

CHAP. III.

TONGUE BEING FLORID OR RED UNIFORMLY; WITH THE
ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

TONGUE FLORID OR RED UNIFORMLY.				SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	43	Florid, clean, fissured	No report	Pain, nausea	Costive	Palpitations
2	Female	45	Florid	Headach	No report	Variable	Pains fugitive
3	Female	21	Florid	No report	No report	Relaxed	Pain in body and sides
4	Female	19	Florid, clean	No report	No report	Regular	Pain in feet and hands
5	Male	24	Florid	No report	Sinking	Costive	
6	Female	19	Florid, clean	No report	Pain	Regular	Pains, drowsiness
7	Female	28	Florid, fissured	No report	No report	Relaxed	
8	Female	30	Florid	No report	No report	Relaxed	Debility, dyspnœa
9	Female	25	Florid, dry	Headach	Pain, nausea, anorexia	Regular	Nervous depression
10	Female	25	Florid, glazed, tumid, adhesive, [moist	No report	Sinking	Regular	Pains thoracic
11	Female	25	Florid, dry	No report	Pain, anorexia	Relaxed	
12	Female	28	Florid, clean	Headach	Nausea [lence	Costive	Debility
13	Female	25	Florid	Headach	Cold sensations, flatu-	Irregular	
14	Female	19	Florid, dry	No report	Faintness	Costive	Chiliness
15	Female	16	Florid, tremulous	No report	Pain	Costive	Tension on the right side
16	Male	30	Florid, thin moist fur	No report	No report	Variable	Dyspnœa
17	Female	65	Florid, thin white fur	No report	Pain	Costive	
18	Male	64	Florid, thin moist fur	Giddiness	Nausea, acidity	Regular	
19	Female	18	Florid, clean	Giddiness	No report	Regular	
20	Female	15	Florid, clean, broad	Headach	Sinking	No report	Pain between shoulders
21	Female	28	Florid, clean	No report	No report	No report	Langor
22	Female	13	Florid, clean	Headach	Pain	Regular	Pain between shoulders
23	Female	17	Florid, clean	Headach	Nausea	Regular	
24	Female	20	Florid	Headach	Pain	Regular	Pain in body
25	Female	17	Florid	No report	Pain	Regular	

TONGUE FLORID OR RED UNIFORMLY.				SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
26	Female	20	Florid	No report	Pain	Costive	Pain in chest
27	Female	17	Florid, clean	No report	Pain, nausea	Costive	
28	Female	15	Florid	No report	Nausea	Costive	
29	Female	21	Florid, clean, fissured	No report	No report	No report	Pain in chest
30	Female	30	Florid	No report	Pain	Diarrhœa	Dyspnœa, cough
31	Female	37	Florid, fissured	Headach	No report	Regular	Irritation of urinary passage
32	Female	35	Florid, moist	No report	Sinking	No report	Heart's action urgent
33	Female	18	Florid, clean	Headach	Sickness	Costive	Pain in loins
34	Female	36	Florid	No report	Pain	Costive	Pain in side
35	Female	17	Florid, tremulous, furred thinly	Headach	Heat	Costive	Blood in motions
36	Male	38	Florid, covered with thin fur, moist, and tremulous	No report	Pain	Costive	
37	Female	55	Florid, glazed, sensitive	No report	No report	Variable	Dyspnœa
38	Male	40	Florid, moist	No report	Sinking	Variable	
39	Female	18	Florid, moist	Headach	Pain, nausea	Regular	

SUMMARY.

TONGUE UNIFORMLY RED OR FLORID,

Thirty-nine Cases ; of which

THE TONGUE WAS

Furred with mucus in	5
Furred with a dry coat in	3
No report of	11
Various appearances in	8

THE BOWELS WERE

Regular in	12
Costive in	13
Relaxed in	5
Irregular in	5
No report of	4

Headach in	3
Headach with gastric irritation in	11
Gastric irritation in	17
No report of	8

GENERAL SYMPTOMS.

Pains in	12
Various symptoms in	14
No report of	13

The characteristic symptoms accompanying a red or florid state of the tongue, or of the gastric mucous membrane, were pain after food, or nausea, or vomiting, with a sensation of sinking.

Although fugitive pains were complained of, they could be traced, with few exceptions, to the gastric region.

Headach, uncomplicated, was observed in but three instances ; with gastric irritation in eleven of thirty-nine ; whereas the stomach was affected, or was the seat of uneasiness, in twenty-eight of thirty-one cases.

The bowels varied but little from the healthy standard.

A clean and florid state of the tongue was accompanied with headach, or gastric pain, or nausea, and fugitive pains.

CHAP. IV.

EPIDERMIS UNIFORMLY CLEAN AND ATONIC; ALSO THE
ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

EPIDERMIS UNIFORMLY CLEAN AND ATONIC.				SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	25	Clean, sodden	No report	Pains	Regular	Flatulent
2	Female	41	Clean, sodden and indented	No report	No report	No report	Duodenum loaded
3	Male	41	Clean, sodden, fissured, tremulous	No report	No report	Costive	Lumbar bearing down pains
4	Female	26	Clean, sodden	No report	No report	Costive	Pain in side
5	Female	15	Clean	No report	No report	Costive	Pain in head and stomach alternating
6	Female	29	Clean, pale, broad	Headach	Pains	Regular	Pain in legs
7	Female	47	Clean, pale, broad, slightly fissured	No report	No report	No report	
8	Female	21	Clean, white	No report	Sinking	Regular	
9	Male	33	Clean, sodden	No report	Pain, nausea	Costive	Pain in chest
10	Female	19	Clean, sodden	No report	No report	Irregular	
11	Female	26	Clean, sodden	No report	No report	Regular	
12	Female	36	Clean, sodden and white	Headach	Sinking	Costive	Hysterics, palpitation
13	Female	22	Clean, sodden	No report	No report	Costive	
14	Female	31	Clean, dry	Headach	Heat, acidity	Costive	
15	Female	30	Clean, sodden	Giddiness	No report	Costive	
16	Female	14	Clean	Throbbing	Pain, nausea	Costive	Palpitation
17	Female	55	Clean, dry, shrivelled	No report	No report	Diarrhoea	
18	Female	18	Clean, sodden	No report	No report	Costive	Hysterics
19	Female	45	Clean, sodden, broad	Headach	No report	Costive	Thirsty
20	Female	35	Clean	Headach	Pain, flatus	Regular	
21	Female	20	Clean	Giddiness	No report	No report	
22	Female	19	Clean	Giddiness, or headach	No report	Costive	Numbness in left arm
23	Female	22	Clean	No report	Pain	Costive	Pain in left side
24	Female	55	Clean	No report	Sinking	Regular	Dyspnœa

EPIDERMIS UNIFORMLY CLEAN AND ATONIC.

SYMPTOMS ACCOMPANYING.

No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
25	Female	18	Clean	No report	No report	No report	Pain in back
26	Male	25	Clean, tremulous, enervated	No report	No report	Irregular	
27	Female	22	Clean, sodden	Hemicrania	No report	No report	
28	Female	47	Clean	Headach	Pain, nausea	Costive	Dyspnœa, palpitation, hæmoptysis
29	Female	16	Clean, anemic	Headach	No report	Regular	Pain in right side
30	Female	17	Clean, tremulous	No report	No report	Regular	Pain in hips and back
31	Female	21	Clean	No report	Sinking	Regular	Palpitation
32	Female	21	Clean, anemic	Giddiness	Nausea	Regular	Pain in loins
33	Female	17	Clean	Headach	No report	Regular	Pain in legs
34	Female	52	Clean, glazed, slightly fissured	No report	Pain	Regular	Dyspnœa, pain between shoulders
35	Female	28	Clean, anemic, superficial fissures	No report	No report	Variable	Pain in back and side
36	Female	25	Clean	Headach	No report	Regular	Stupor
37	Female	14	Clean, tremulous	Headach	No report	Costive	Pain in legs
38	Female	24	Clean	Headach or giddiness	No report	Regular	
39	Female	54	Clean, smooth, and glazed	No report	Sinking	Relaxed	
40	Female	18	Clean, anemic	No report	No report	Costive	
41	Female	19	Clean	Headach	Sinking	Regular	
42	Female	22	Clean, smooth	Giddiness	Pain	No report	Fugitive pains
43	Female	20	Clean	No report	Pain	Regular	Langor
44	Female	41	Clean, fissured	No report	Pain, flatus	No report	Fugitive pains
45	Female	17	Clean	No report	No report	No report	Pain in legs
46	Female	16	Clean	No report	No report	Costive	
47	Female	21	Clean	No report	Sinking, anorexia	Costive	
48	Female	18	Clean, tumid	Giddiness	Sinking	Costive	

EPIDERMIS UNIFORMLY CLEAN AND ATONIC. SYMPTOMS ACCOMPANYING.

No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
49	Female	17	Clean, tumid, tremulous	Headach	Pain after food	No report	Fugitive pains
50	Female	42	Clean	No report	Faintness, oppression, smarting	Regular	
51	Female	27	Clean, tremulous	No report	Cold sensation, flatus	No report	Palpitation
52	Female	18	Clean, tumid, anemic	Giddiness	Pain, sinking	Costive	
53	Female	22	Clean, tumid, dry	Giddiness, pain after food	No report	No report	Pain in right side, faint sensations
54	Female	18	Clean, tremulous	No report	Pain	No report	
55	Female	38	Clean, fissured, anemic	Giddiness	Nausea	Regular	Fugitive pains
56	Female	24	Clean, anemic	No report	Pain, fainting	Regular	Lumbar pain
57	Male	54	Clean, sodden, fissured	Headach	Nausea, pain	Regular	
58	Female	22	Clean, sodden, anemic	Headach	No report	Variable	
59	Female	17	Clean, sodden, tremulous	No report	No report	No report	Palpitation
60	Female	22	Clean	Headach	No report	Costive	Hysterics
61	Female	40	Clean, tremulous, white	No report	No report	Costive	Pain in limbs
62	Male	34	Clean, tremulous	No report	Flatus	No report	Pain in abdomen
63	Female	17	Clean	Headach	No report	Costive	
64	Female	24	Clean, anemic, tumid	Headach	No report	Costive	Dysphagia
65	Female	48	Clean	No report	No report	No report	Pains rheumatic
66	Female	37	Clean, anemic	No report	No report	Regular	Pain in abdomen
67	Female	43	Clean	No report	No report	Regular	Palpitation
68	Female	30	Clean, sodden	Headach	Pain	Costive	
69	Female	40	Clean, sodden	No report	No report	Costive	Fluttering
70	Male	60	Clean, tremulous	No report	No report	Relaxed	Pain in legs
71	Female	20	Clean	Headach	No report	No report	

SUMMARY.

TONGUE UNIFORMLY CLEAN,

Seventy-one Cases ; of which

THE TONGUE WAS

Sodden or tumid in	18
Tumid in	5
Pale in	4
Dry in	2
Anemic in	7
Tremulous in	8
Glazed in	2
No report of	25

THE BOWELS WERE

Regular in	21
Costive in	25
Relaxed in	3
Irregular in	4
No report of	18

Headach in	16
Headach with gastric pain in	15
Gastric irritation in	16
No report of	24

GENERAL SYMPTOMS.

Rheumatic pains	26
Anomalous symptoms	13
Palpitation in	9
No report of	23

The general symptoms with a uniformly clean tongue were pains in the legs and loins, palpitations, and hysterical feelings.

With a uniformly clean tongue, it being at the same time sodden or tumid, headach, hemicrania or giddiness, were present ; or otherwise, there was gastric pain or nausea, and but a few instances of fugitive pains and hysterical symptoms.

With a pale and white tongue there was headach, alternating with gastric pain or sinking.

The tongue being anemic, giddiness or headach, nausea, and a sinking sensation, were experienced. A few instances of fugitive pains occurred.

With a tremulous tongue there was chiefly fugitive pains, and occasionally an instance of headach and gastric irritation.

This is the anemic, atonic, enervated, flabby, flaccid, sodden and pale, or blanched tongue, described by writers. The system suffers from languor, the muscular structure of the tongue seems flaccid, and the mucous tissue presents the like exsanguined and pallid aspect.

Headach, with fugitive pains, frequently coincided ; also gastric, with fugitive or muscular pains ; but headach, with gastric pains, was less frequently observed.

The bowels were inclined to be costive.

Gastric symptoms were pains, nausea, sinking, or faint sensations.

CHAP. V.

EPIDERMIS FLORID AND FURRED ; ALSO THE ACCOMPANYING
SYMPTOMS.

TABLE OF CASES.

EPIDERMIS FLORID AND FURRED.				SYMPTOMS ACCOMPANYING.			
N ^o .	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	16	Florid, streaked with white fur	No report	No report	Costive	Palpitation
2	Female	18	Florid, white fur	Headach	No report	Relaxed	Rigors, debility
3	Female	28	Florid, mucous fur, tremulous, fissured	Headach	No report	Costive	Abdominal pains
4	Female	28	Florid, thin white fur	No report	Flatulence	Costive	
5	Female	16	Florid, thin milky fur	No report	Pain, faintness	Costive	
6	Female	55	Florid, thin white fur	No report	No report	Costive	Fugitive pains
7	Female	24	Florid, thin brown fur	No report	Pain	Costive	
8	Male	22	Florid, creamy fur	Headach	No report	No report	Restlessness
9	Female	22	Florid	No report	No report	Costive	Fugitive pains
10	Female	18	Florid, streaked with dry fur, tremulous	Pain	No report	Costive	Pain in side
11	Male	21	Florid, white on surface	No report	No report	Regular	Thoracic pain
12	Female	20	Florid, furred at base	No report	No report	Regular	Spasmodic twitchings
13	Male	46	Florid, furred	No report	No report	Costive	Lumbar pain
14	Female	22	Florid, slightly furred	No report	No report	Relaxed	
15	Male	45	Florid, slimy mucous fur	No report	No report	Costive	Pain in legs
16	Female	60	Florid, loose fur, fissured	No report	No report	Costive	
17	Female	21	Florid, slimy fur	No report	No report	Costive	
18	Male	32	Florid, thin white fur	No report	Pain	Costive	
19	Female	30	Florid, thin white fur	No report	Faintness	Costive	
20	Male	30	Florid, loose thin fur, tremulous	Headach	Nausea, flatus	Costive	
21	Female	17	Florid, furred, tremulous, granulated	No report	No report	No report	Rheumatic pain
22	Female	39	Florid, furred with a slimy coat	No report	Pain or aching	No report	
23	Female	48	Florid, furred	Throbbing	Tremor	No report	Pain between shoulders
24	Female	21	Florid, furred, slimy mucus	Headach	No report	Regular	
25	Female	39	Florid, furred thinly	No report	Pain	Costive	Cough
26	Female	25	Florid, furred and fissured	Headach, giddiness	No report	Costive	

SUMMARY.

TONGUE UNIFORMLY FLORID AND FURRED,

Twenty-six Cases; of which

THE BOWELS WERE

Regular in	3
Costive in	16
Relaxed in	2
No report of	5

Headach uncomplicated in	7
Headach with gastric irritation in	2
Gastric irritation in	7
No report of	10

GENERAL SYMPTOMS.

Anomalous feelings in	6
Rheumatic pains in	9
No report of	11

A constipated habit especially remarked with a uniformly florid and furred tongue.

Pain was experienced either in the stomach, head, or the lower extremities, as the knees and legs; or fugitive muscular pains about the body.

Gastric irritation complained of only in nine cases of the twenty-six.

The costive state of the bowels seems to be productive of irritation, that induces headach and fugitive pains.

CHAP. VI.

THE APEX FLORID AND SURFACE FURRED; ALSO THE
ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

APEX FLORID, THE SURFACE FURRED.				SYMPTOMS ACCOMPANYING.			
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Male	25	Florid, tremulous	No report	Pain or uneasiness	Regular	Fugitive pains
2	Male	32	Florid, white slimy fur	No report	Pain, cold sensation	Costive	
3	Male	49	Florid	Pain	Pain	No report	
4	Female	19	Florid, furred	No report	Pain after food	Costive	Variable
5	Male	22	Florid, furred at base	No report	Pain	Variable	
6	Female	17	Florid, furred on surface	No report	No report	Costive	
7	Female	24	Florid, furred at base	Confusion	Anorexia	Costive	Costive
8	Female	25	Florid, furred dry and white	No report	No report	Costive	
9	Female	6	Florid, furred with slimy mucus	No report	No report	No report	
10	Male	22	Florid, furred with slimy mucus	No report	No report	Regular	Irritative cough
11	Male	60	Florid, furred with slimy mucus	No report	Sinking	No report	Pain in hepatic region
12	Male	51	Florid, furred with slimy mucus	No report	No report	No report	Dyspnœa, œdema
13	Female	25	Florid, furred dry and white	No report	No report	Regular	Faintness
14	Female	27	Florid, furred white	No report	Flatulency	Costive	Pain in back
15	Female	32	Florid	Headach	Sinking	Costive	Irritability
16	Male	48	Florid, furred at base	No report	No report	No report	Pains general

CHAP. VII.

THE TONGUE'S EDGES FLORID, AND SURFACE FURRED ; ALSO
THE ACCOMPANYING SYMPTOMS.

TABLE OF CASES.

SYMPTOMS ACCOMPANYING.							
EDGES FLORID, SURFACE FURRED.							
No.	Sex.	Age.	Tongue's Aspect.	Head.	Stomach.	Bowels.	General Symptoms.
1	Female	15	Florid, covered with mucus	Headach	Pain	Regular	Hepatic weight
2	Female	17	Florid, tumid, fissured	Headach	Pain, gnawing	Irregular	Stiffness of limbs
3	Female	23	Florid, surface white	No report	Gnawing, faint	Costive	Abdominal pain
4	Female	41	Florid, furred, white and moist	No report	No report	Costive	Abdominal pain
5	Female	26	Florid, streaked with white fur	No report	Anorexia	Irregular	Abdominal pain
6	Male	43	Florid, white, tremulous	No report	Anorexia	Relaxed	Lumbar heat
7	Female	58	Florid, broad, covered with slimy mucus	Headach	Oppression	No report	Abdominal pain
8	Male	20	Florid, white	No report	No report	Costive	Pain in left side
9	Male	20	Florid, covered with mucous fur	No report	No report	Regular	Hepatic pain
10	Male	23	Florid, broad, thinly furred	No report	No report	Costive	Pains rheumatic
11	Female	20	Florid, covered with slimy fur	No report	No report	No report	
12	Female	18	Florid, covered with white fur	No report	No report	Relaxed	
13	Female	17	Florid, coated with white fur	Headach	Sinking	Regular	Pain in joints
14	Male	23	Florid, coated with white fur	Confusion	Pain, gnawing	No report	
15	Female	14	Florid, furred at the base	No report	No report	Costive	Pain in shoulder
16	Male	45	Florid	No report	Nausea	No report	
17	Female	29	Florid	No report	No report	Costive	Palpitations
18	Female	60	Florid, covered with white fur	Giddiness	No report	Regular	
19	Female	21	Florid	No report	No report	Relaxed	
20	Female	21	Florid, surface furred	Headach	No report	Relaxed	Epigastric pain
21	Female	17	Florid, surface furred	No report	Pain, nausea	Relaxed	Pain rheumatic
22	Male	17	Florid, mucous fur	No report	No report	No report	

SUMMARY.

TONGUE'S APEX FLORID, SURFACE FURRED,

Sixteen Cases ; of which

THE BOWELS WERE

Regular in	3
Costive in	8
Irregular in	1
No report of	4

Headach uncomplicated	0
Headach with gastric irritation in	3
Gastric irritation in	6
No report of	7

GENERAL SYMPTOMS.

Pains in	5
Anomalous symptoms in	4
No report of	7

Apex florid, with a furred surface, shewed great immunity from uncomplicated head symptoms ; the stomach being chiefly affected, or fugitive pains prevailing.

SUMMARY.

TONGUE'S EDGES FLORID, SURFACE FURRED,

Twenty-two Cases ; of which

THE BOWELS WERE

Regular in	4
Costive in	6
Relaxed in	5
Irregular in	2
No report of	5

Headach in	2
Headach with gastric irritation in	5
Gastric irritation in	5
No report of	10

GENERAL SYMPTOMS.

Pains in	10
Anomalous symptoms	6
No report of	6

Edges florid, with a furred surface, were chiefly accompanied with a tendency to gastric symptoms, or with fugitive pains ; but the gastric symptoms preponderated.

It appears that when the apex or edges of the tongue are florid, with a furred surface, the stomach is generally the seat of irritation, or fugitive pains are felt ; but rarely do head symptoms prevail.

CHAP. VIII.

TABULAR ARRANGEMENT.

TABULAR ARRANGEMENT.

	<i>Tongue covered uniformly moist fur.</i>	<i>Tongue covered uniformly dry fur.</i>	<i>Tongue clean and atonic.</i>	<i>Tongue uniformly red.</i>	<i>Edges florid, surface furred.</i>	<i>Apex florid, surface furred.</i>	<i>Tongue florid and furred.</i>
<i>Number of Cases</i>	141	17	71	39	22	16	26
TONGUE'S ASPECT.							
Florid or red tongue	1	..	..	39	..	..	26
Anemic	6	1	7	..	..	..	..
Sodden or tumid	11	1	23	..	1	..	..
Furred with slimy mucus ..	141	..	..	5	18	12	..
Furred white and dry .....	..	17	..	3	..	1	..
Fissured	12	3	..	..	..	..	..
Tremulous	13	1	8	..	..	..	..
Clean .....	..	..	71	12	..	..	..
Pale .....	..	..	4	..	..	..	..
Dry .....	..	..	2	..	..	..	..
Glazed .....	..	..	2	..	..	..	..
Edges clean .....	..	2	..	..	..	..	..
No report .....	..	9	25	11	3	3	..
BOWELS.							
Regular	24	3	21	12	4	3	3
Costive	102	10	25	13	6	8	16
Relaxed	2	1	3	5	5	..	2
Irregular	4	1	4	5	2	1	..
No report	9	2	18	4	5	4	5
HEAD SYMPTOMS.							
Headach	34	2	16	3	2	..	7
Headach with gastric irritat.	19	2	15	11	5	3	2
Gastric irritation	49	7	16	17	5	6	7
No report	39	6	24	8	10	7	10
GENERAL SYMPTOMS.							
Pains fugitive	42	12	26	12	10	5	9
Palpitation	8	..	9	..	..	..	..
No report .....	..	1	23	13	6	7	11

SUMMARY.

	<i>Stomach.</i>	<i>Head.</i>	<i>Pains.</i>	<i>Constipation.</i>
Tongue covered with moist fur	68 of 102	34 of 102	42 of 141	102 of 132
Tongue covered with dry fur	9 of 11	2 of 11	12 of 17	10 of 15
Tongue florid and furred...	9 of 16	7 of 16	9 of 26	16 of 21
Apex florid, surface furred	9	....	5 of 16	8 of 12
Edges florid, surface furred	10 of 12	2 of 12	10 of 22	6 of 17
Tongue florid	28 of 31	3 of 31	12 of 39	13 of 37
Tongue clean	31 of 47	16 of 47	26 of 71	25 of 53
	164 of 228	64 of 219	116 of 332	180 of 285

TONGUE IN ORDER OF GASTRIC SYMPTOMS.

Apex florid, surface furred.

Edges florid, surface furred.

Tongue covered with a dry fur.

Tongue uniformly florid.

Tongue covered with a uniform moist fur.

Tongue uniformly florid and furred.

Tongue uniformly clean.

TONGUE IN ORDER OF HEAD SYMPTOMS.

Tongue uniformly florid and furred.

Tongue covered with a uniform moist fur } $\text{\AA}q.$
Tongue uniformly clean

Tongue covered with a dry fur.

Edges florid with a furred surface.

Tongue uniformly florid.

Apex florid, surface furred.

TONGUE IN ORDER OF FUGITIVE PAINS.

Tongue covered with a dry fur.

Apex florid, with a furred surface.

Edges florid, surface furred.

Tongue uniformly florid and furred.

Tongue uniformly florid.

Tongue coated with a uniform moist fur.

Tongue uniformly clean.

CHAP. IX.

CONSIDERATIONS RELATIVE TO HEADACH BEING A
TEST OF A LOADED STATE OF THE INTESTINAL
PASSAGE.

Headach prevailed chiefly when the tongue was uniformly florid and furred ; or when covered with a uniform moist fur ; or when it was quite clean. On the contrary, when the apex was florid, attended with a furred surface, not a single instance was observed of sixteen cases of which headach was complained of. Also, when the edges of the tongue were florid, with a furred surface, although gastric irritation existed to an intense degree, headach was rarely noticed. It appears, therefore, that headach is not depending on gastric irritation.

When the tongue was uniformly florid and furred the most prominent symptoms were an exceedingly constipated state of the bowels. Headach was felt next in degree when the tongue was covered with a uniform moist fur ; hence it was observed, that of forty-eight cases in which the head was affected coincidently with the bowels, thirty-three of these were of a constipated habit.

Further, in reviewing the cases in which the bowels were stated to be costive, deducting those instances in

which there was no report of their function, we find that the bowels were admitted to be costive in one hundred and eighty cases of two hundred and eighty-five ; being nearly in the ratio of 45 : 71.

It must also be remarked, that the statements of individuals relative to their bowels are generally vague ; for, providing they are not extremely costive, they view this subject with much indifference. It is very probable that the ratio of constipated habits would be greater if the function of the intestines was more carefully regulated.

It seems to result from these observations, that headach, varying in degree of intensity, uniformly accompanied constipation ; and therefore that headach may be considered an index of a loaded state of the intestinal passage.

CHAP. X.

REMARKS ON GASTRIC IRRITATION AND FUGITIVE PAINS.

Gastric irritation was remarked when the apex of the tongue was florid and its surface furred ; no headach accompanied this intensely irritable state of the stomach. Gastric irritation was noticed in ten of twelve cases when the edges of the tongue were florid, and its surface furred, and in but two of twelve instances did headach accompany such irritation.

It seems that when the gastric irritation was most intense there was a minimum degree of headach. Also, when the tongue was covered with a uniform dry fur, the stomach was affected in a large proportion of the cases.

Whenever the stomach evinced intense irritation fugitive pains prevailed, in proportion to the intensity of gastric uneasiness, and appearing to coincide with the gastric derangement.

Fugitive pains were chiefly remarked when the tongue was covered with a uniform dry fur, a state of tongue in which the pyramidal papillæ seem erect, giving a rough appearance to its surface ; in those instances the cases were characterised by symptoms of defective secretion.

We, therefore, infer that fugitive pains indicate gastric irritability, or defective secretion of the stomach, or other organ.

CHAP. XI.

APPEARANCES OF THE TONGUE WHEN COVERED WITH A
UNIFORM MOIST OR DRY FUR, OR WHEN CLEAN; WITH
THE SYMPTOMS OF THE HEAD AND STOMACH, AND THE
GENERAL SENSATIONS ACCOMPANYING THEM.

APPEARANCES OF THE TONGUE WHEN COVERED WITH A UNIFORM MOIST OR DRY FUR,
OR WHEN CLEAN; WITH THE SYMPTOMS OF THE HEAD AND STOMACH, AND THE
GENERAL SENSATIONS ACCOMPANYING THEM.

<i>Tongue's Appearance.</i>	<i>Head Symptoms.</i>	<i>Gastric and</i>	<i>General Symptoms.</i>
TONGUE RED OR FLORID. Covered with uniform moist fur	_____	Oppression _____	Constipation _____
TONGUE ANEMIC. Covered with moist fur Covered with a dry fur Uniformly clean	Headach Headach or giddiness _____	Pain Nausea or sinking _____	Constipation and palpitation Fugitive pains Fugitive pains occasionally _____
TONGUE SODDEN OR TUMID. Covered with a moist fur Covered with a dry fur Uniformly clean	Headach Headach, hemicrania, or giddi- ness _____	Pain, nausea, acidity Pain or nausea _____	Constipation, palpitation, flutterings Palpitation, dyspnea Fugitive pains; hysterics _____
TONGUE FISSURED. Covered with a moist fur Covered with a dry fur	Headach _____	Pain or sinking Gnawing or tension _____	Bilious sensations, fugitive pains Fugitive pains _____
TONGUE TREMULOUS. Covered with a moist fur Covered with a dry fur Uniformly clean	Headach, confusion Confusion Headach	Pain or gnawing Heat Pain	Fugitive pains in extremities Fugitive pains Fugitive pains

A *red or florid tongue*, covered with a uniform moist fur, was accompanied with gastric oppression.

An *anemic tongue*, covered with a uniform moist fur, was attended with headach, gastric pain, costiveness, and palpitation.

Covered with a uniform dry fur, fugitive pains only were noticed.

When uniformly clean, giddiness or headach, nausea or sinking, and occasional fugitive pains, were felt.

The tongue *sodden or tumid*, and covered with a uniform moist fur, headach, pain, or nausea, with palpitations, flutterings, and costiveness, were present.

With a dry fur, there was palpitation and dyspnœa.

When uniformly clean, head, gastric, fugitive, and hysterical symptoms prevailed.

Tongue *fissured*, and covered with a moist fur, headach, gastric pain, or sinking, attended with bilious feelings and fugitive painful sensations.

When coated with a uniform dry fur there was gastric gnawing, or tension, together with fugitive pains.

With a *tremulous tongue*, being coated with a moist fur, and with a dry fur, or when clean, there was head-ach or confusion, with gastric heat or pain ; but fugitive pains chiefly prevailed.

We find that when the tongue was coated with a moist fur, whether red, anemic, sodden, fissured, or tremulous, constipation, or symptoms attributable to such a state, was observed.

When coated with a dry fur, the tongue being anemic, sodden, fissured, or tremulous, there was a tendency chiefly to fugitive pains.

With a clean and moist tongue, whether anemic, sodden, or tremulous, there seemed to be an equal tendency to head, gastric, and fugitive pains.

CHAP. XII.

DEDUCTIONS FROM SOME APPEARANCES OF THE TONGUE; THE FILIFORM AND TUBEROSE PAPILLÆ NOT BEING DEVELOPED OR OBSERVABLE.

1. That the pyramidal papillæ, when erect or apparently elongated, indicate defective secretion of the stomach or other organ.
2. That fugitive pains indicate gastric irritability, or defective secretion of the stomach or other organ.
3. Constipation especially remarked when the tongue was uniformly florid and furred.
4. That headach, varying in degree of intensity, uniformly accompanied constipation; and that headach may be deemed an index of a loaded state of the intestinal passage.
5. That with a tongue covered with a moist fur, whether red, anemic, sodden, fissured, or tremulous, constipation was generally indicated.
6. When the tongue was covered with a dry fur, whether anemic, sodden, fissured, or tremulous, fugitive pains were chiefly present.
7. That with a clean and moist tongue, whether anemic, sodden, or tremulous, there was an equal tendency to head, gastric, and fugitive pains.

CHAP. XIII.

REMARKS ON DEFECTIVE SECRETION OF THE STOMACH; AND SUGGESTIONS FOR THE TREATMENT.

When a gland becomes checked in its function of secretion, the usual consequence is congestion, or distension. As in consumptive cases, when the expectoration is suddenly checked, dyspnœa, followed by death, is usually observed, and a congested state of the lungs is noticed. Similarly, when the function of the skin is abruptly repressed, symptoms of congestion of some internal organ frequently present themselves: this congestion, or distension, is accompanied with a feeling of sinking, or of weight over the gland, according as the organ may be solid or hollow; a sinking sensation being characteristic of repressed secretion of hollow organs, as the uterus and stomach; while an oppressive sensation is experienced when the kidneys or liver are deranged in their functions.

It seems, also, that the susceptibility of organs to irritation, within certain limits, is increased by the repetition of impressions. It is observed that on the slightest defective secretion of the mucous covering of the stomach, that the nerves of sensation are exposed, and become acutely impressed by the articles of diet that are taken; and, as irritation from any cause induces

defective secretion of contiguous glands, it follows that so long as the irritable excitement continues the natural action of the secreting apparatus will be imperfect, and congestion, more or less intense, will appear, accompanied with a sensation of sinking. Whatever may have been the primary cause of aberrated mucous secretion, so long as the nerves are exposed, will the unnatural susceptibility continue, and become aggravated by the persistence in improper aliment. Hence the necessity for strict attention to dietetic discipline, and for avoiding such things as tend to induce irritation.

PART III.

TONGUE OF ORGANIC CHANGE.

THE LUNGS.

CHAP. I.

PRELIMINARY DISSERTATION.

As the mucous membrane of the lungs differs from that of the stomach, in not being endowed with similar papillæ, but simply a continuation of the like membrane that is prolonged from the tongue, through the stomach and intestinal tube, we may anticipate a florid state of the lingual mucous membrane when the lungs are inflamed or irritated, without the papillæ on the tongue's surface being affected. By the same reasoning, as the tongue has on its surface papillæ similar to those in the stomach, we may justly infer that when the gastric papillæ are functionally disturbed the same order of parts situated on the lingual surface will evince sympathetic irritation.

The tongue was uniformly florid and clean in twenty-two instances : it was florid wholly, or partially, in forty-three of the fifty cases. By this we may reasonably infer that the tongue, from continuity of structure, indicates a diseased condition of the mucous membrane, either of the stomach or lungs.

In four instances the tongue was streaked on the right or left half, the fur extending from the base to the apex; while the corresponding side was intensely florid,

but not coated. I am not prepared to conclude that there is any necessary connexion between one lung being structurally altered, and a florid or coated half of the tongue : such aspect of the tongue has not frequently presented itself. I have observed in several instances that the tongue was highly injected at the time when the pulmonary disease commenced, and afterwards became more natural in appearance. In one of these instances fistula in ano formed, and in another profuse leucorrhœal symptoms ensued.

It would be an interesting subject to trace the progressive changes in the apparatus of the lungs, as they become gradually disorganized in phthisis, with the corresponding attempts made by other organs, or tissues, to maintain the balance of the pulmonary function.

When tubercular solidification occurs at the apex of either lung, irritation is established, and increases as the function of aeration becomes circumscribed ; the volume of blood becomes diminished, so as to accommodate itself to the abridged portion of healthy or permeable lung : hence, atrophy of the muscular system, and general anemia of the body : hence, anasarca and internal effusions, when there exists no outlet of relief by the bronchiæ : hence, dyspnœa and oppression of the heart. If the liver becomes enlarged or contracted, as in scirrhus, we have general or local dropsy. By analogy, if a portion of lung becomes solidified, a similar effect of impeded circulation may

ensue, thus aggravating the dyspnœa by the pressure of the effused fluid on the diaphragm, or on the healthy lung. It is in such cases that diarrhœa and perspirations so frequently occur, as though the skin and bowels tended to relieve the oppression by carrying off the extraneous fluid. It was remarked by Louis, that the perspirations coincided with the diarrhœa, when the alvine evacuations were numerous; and that the diarrhœa seemed to be an alteration of secretion, and not depending on ulceration of the mucous membrane. If so, diarrhœa may be viewed as a test of the presence of such effusion. Hence the skin, kidneys, and bowels, may assume a supplemental function to relieve the oppressed lungs; nor are such symptoms to be considered otherwise than as signs of impeded circulation.

Those cases of consumption which possess an outlet of relief are less apt to terminate so speedily as those which present no means of maintaining the balance of circulation; in this latter class the general symptoms are more urgent, and terminate in a shorter period. When the system is relieved by the skin, kidneys, or bowels, or, as with females, by other secretions, the period of existence depends on the means employed for meeting urgent symptoms: and whether the patient may exist few or many years must often depend on the skill of the attendant in selecting and adapting appropriate treatment.

The remaining healthy portion of lung has been found highly congested, or the cells gorged with serous fluid, such state of parts appearing to have been the immediate cause of death. How far stimulating the kidneys and cutaneous exhalants, to carry off the excess of fluid, may tend to prevent internal congestion, or effusion, is a point of practice not yet satisfactorily determined. It may be observed that the treatment hitherto pursued and recommended has consisted in medicines that influence these organs.

When the air-cells of a portion of lung have become distended, or consolidated with tuberculous secretion, it is possible that the system may accommodate itself to such abbreviated function; and, providing no further deposition occurs, life may be prolonged to an indefinite period.

I have appended a case in which the pulmonary deposit was in zones, and separated from the comparatively healthy portion of lung by a thin and diaphanous membrane; showing that the attempt to define and limit disease sometimes happens. I have added an instance to show how delusive general symptoms may prove as to the primary disease. Also a case of cutaneous emphysema, caused by a fistulous communication with a tuberculous cavity. And an interesting case of Diabetes, depending on pulmonary tubercular disease.

CHAP. II.

PULMONARY LESION, AND ACCOMPANYING SYMPTOMS.

TABLE OF CASES.
PULMONARY LESION, AND ACCOMPANYING SYMPTOMS.

No.	Sex.	Age.	Tongue's Appearance.	Bowels.	Stethoscopic Signs.	General Symptoms.
1	Male	46	Florid		Resonance general	
2	Female	35	Florid		Resonance in the right lung	
3	Female	54	Florid		Resonance in the right lung	
4	Female	20	Florid		No report	
5	Female	20	Florid		No report	
6	Female	19	Florid		Consolidation and congestion	
7	Female	12	Florid		Resonance in the right lung	
8	Female	20	Florid		Resonance in the right lung	
9	Female	24	Florid on the left half, furred right half		Resonance in the right lung	
10	Female	28	Florid at the apex		Resonance in the right lung	
11	Female	18	Florid		Resonance in the right lung	
12	Female	34	Florid and coated with a white fur		Resonance in the right lung	
13	Female	20	Florid		No report	
14	Female	17	Florid and thinly coated		Resonance in the right lung	
15	Male	27	Florid, tremulous, edges streaked with [white fur		Resonance in the right lung	
16	Male	26	Florid, tremulous, edges streaked with		No report	
17	Male	24	Florid, tremulous, & covered with mucous fur		Resonance in both lungs	
18	Female	19	White, tremulous, and furred at base		No report	
19	Female	22	White, tremulous, tumid, florid papillæ	Constipated	Resonance in right lung	Hæmoptysis
20	Female	18	Florid, coated with a uniform thin fur	Relaxed	Pectoriloquy in left lung	
21	Female	20	Florid and clean		Resonance general	
22	Female	20	Florid, left half streaked with white fur		Resonance in right lung	
23	Female	21	Florid, streaked with fur in centre		Resonance in right lung	
24	Female	18	Florid and clean		Resonance in right lung	Pain in epigastrium
25	Male	13	Florid and clean		Resonance in right lung	Mesenteric complication
26	Male	22	Florid		Resonance with excavations	

PULMONARY LESION, AND ACCOMPANYING SYMPTOMS.

No.	Sex.	Age.	Tongue's Appearance.	Bowels.	Stethoscopic Signs.	General Symptoms.
26	Male	25	Florid	Diarrhoea	Cavities	
27	Female	17	Florid, furred, edges clean	Diarrhoea	Resonance in right lung	
28	Female	35	Florid	Diarrhoea	No report	Ascites
29	Female	15	Coated with a thick mucous fur, edges clean	Diarrhoea	No report	
30	Male	49	Edges clean, surface furred	Costive	No report	
31	Female	18	Florid, clean and moist		Resonance imperfect	
32	Female	20	Florid and clean	Regular	No report	Expectoration
33	Female	21	Florid edges, surface white		No report	Expectoration latterly
34	Male	23	Florid edges, surface covered with mucous [fur	Diarrhoea	Resonance	Cough
35	Female	26	Florid tendency, centre coated		Resonance, tubular respiration	
36	Female	22	Florid apex, surface white		Resonance	
37	Female	30	Florid sides		Resonance	
38	Male	70	Florid		Resonance in right lung	
39	Female	48	Anemic, white and dry		Resonance in right lung	Menorrhagia
40	Female	28	White	Costive	Resonance in right lung	
41	Male	40	White and tremulous		Resonance in right lung	
42	Female	21	Clean		Resonance in right lung	
43	Female	23	Florid, streaked with a white fur		Resonance in right lung	Cough, pneumatic pain
44	Female	24	Florid and papillated		Resonance in right lung	Expectoration
45	Female	17	Florid and clean		Resonance in right lung	Diabetic symptoms
46	Male	31	Florid edges, surface coated	Diarrhoea	Resonance in right lung	
47	Female	38	Florid edges, surface coated		Resonance in right lung	Expectoration, perspiration
48	Female	34	Florid, left half streaked		Resonance in right lung	
49	Female	22	Florid, or of a dark vermillion, sides coated		Resonance in right lung	Expectoration, perspiration
50	Female	38	Florid and clean	Diarrhoea	Pectoriloquy	Expectoration, menorrhagia
					Resonance general	

SUMMARY.

Fifty Cases.

Tongue uniformly florid and clean in	22
Tongue uniformly florid and furred	7
Edges florid and surface furred	10
Tongue florid, right half furred	2
Tongue florid, left half furred	2
Tongue florid, sides furred	2
Tongue florid at apex only	2
Tongue florid, furred ; papillæ florid	2
Tongue white, tumid, tremulous ; papillæ florid	1
Tongue florid wholly or partially in	43

Consolidation or resonance in	41
Died	14
Bronchitis	1
Mesenteric complication	1
Diarrhœa	4
Hæmoptysis	1
Diabetic symptoms	1
Menorrhagia	2
Constipation obstinate	3
Pneumonic phthisis	1

CHAP. III.

CASE 1.

In which the pulmonary tubercular deposit was in zones, and separated from the comparatively healthy portion of lung by a thin and diaphanous membrane.

DANIEL SHARPE, aged twenty-three, admitted into Hospital with consolidated lung on the right side. The subsequent symptoms were œdema of the lower extremities, copious perspirations, and occasional rigors; during the last month of his existence there was present diarrhœa and expectoration.

The lungs were so extensively tubercled and solidified that the function of respiration must have been abridged to a space of healthy lung not exceeding two-fifths of the whole viscus; showing to what a remarkable extent an organ may be changed in its structure, yet still be enabled to maintain its function. Cavities were present at the apex of either lung. Both the thorax and abdomen were charged with fluid; the abdominal viscera appearing exsanguined.

While examining the tubercular mass of lung, at about two inches from the apex, a thin streak or line seemed to traverse the lung transversely; and at about the same distance below this was a repetition of the like appearance.

The whole lung, from the summit to the second line, was solidified; beneath this boundary the lung was only partially obstructed by collections and points of tubercular deposition, interspersed among the permeable air-cells. On tracing the lower line with the point of the scalpel I separated the transparent laminae of a thin tissue, one lamina adhering to the disorganised portion of lung, and the other lamina being connected to that which was permeable, but in a state of arterial engorgement.

CASE 2.

Singular instance of symptoms presenting evidence of cardiac disease, but which were subsequently found to depend on pulmonary tubercular deposit; showing how general symptoms may prove fallacious as to the primary affection.

MARY PAGE, aged fourteen, presented herself at Hospital, complained of extreme debility, palpitations, and epigastric pain. The lips were venous, and the right auricle gave a dilated impulse; a few days after her admission the lips became florid and the countenance flushed, accompanied with a small pulse, night perspirations, and an occasional slight cough, but with little or no expectoration. Latterly the cough became more troublesome and dry, the face swelling, a fearful sensation of sinking in the cardiac region was experienced, and death rapidly ensued. General emaciation was observed; the lungs were consolidated and

honeycombed with numerous cavities, and excepting a small portion at the base, they were a mass of tubercular degenerescence; strong adhesions of the pleural surfaces were noticed.

The cavities of the heart were distended with coagulated blood, the valves being natural. The liver presented large venous trunks, which were turgid with their contents.

CASE 3.

Instance of cutaneous emphysema, caused by a fistulous communication with a tuberculous cavity.

JAMES SMITH, aged thirty, was admitted into Hospital, stating that he had been ill seventeen weeks.

There was cutaneous emphysema on the right side, extending across the thorax, and upwards to the neck and head. The cellular tissue on the right half of the body was crepitous on pressure; the respiration being diaphragmatic, and the features pinched or sharpened.

A fortnight after his admission, the emphysema began to disappear, and on the right side of the sternum an ulcerous opening formed, followed by an escape of purulent secretion; air passing through the aperture on coughing.

His symptoms became daily aggravated ; diarrhœa, increased discharge from the external opening, and the colliquative perspirations, combined in reducing the system to the extreme of debility. He became suddenly worse, with urgent dyspnœa, tracheal rhonchus, and a falling pulse.

The external opening was situated on the right from the centre of the sternum, being about two inches in diameter. On making an incision from the top of the sternum to the os pubis, and dissecting away the integuments from the thorax, on the left side a large opening was seen, situated between the first and second ribs, and extending for two inches to the left of the sternum. A cavity in the lung was perceptible, which contained a quantity of sero-purulent fluid ; the surface of the cartilages were partially absorbed. A fistulous communication extended the whole of the left clavicle, and underneath it.

The left lung was a mass of softening tubercles ; strong pleural adhesions existed ; superiorly, the ulcerative process had extended through the intercostal muscles, between the first and second ribs : hence was seen the cause of the emphysema and the passage for the sero-purulent discharge.

On the right side the integuments were separated from the whole of the pectoral muscle, and the sero-purulent fluid had made its way as far as the fifth rib,

denuding the costal cartilages their whole length, and extending beyond their junction with the ribs.

The superior lobe of the right lung was filled with tubercles and numerous small cavities, but crepitant at the anterior edges, and exsanguined in appearance. The middle lobe was free from disease. The inferior lobe at its upper portion being loaded with tubercles, towards the base it was permeable, but congested.

CASE 4.

Diabetes accompanying consolidation of a portion of lung, subsequent to Influenza.

A. B., aged seventeen, had been ill for several months; which sickness was attributed to a severe attack of influenza.

On examining the state of the chest, the right lung was found to be consolidated. The symptoms complained of were profuse secretion of urine, uneasiness in the lumbar region, gradual emaciation, and extreme weakness. The tongue was uniformly florid, the papillæ not being developed. The bowels were constipated. The quantity of urine that was passed from nine p. m. to nine a. m., or in twelve hours, was seventy ounces before the course of medicine commenced. Under the influence of opium, which was given

freely, the quantity of urine was reduced to eight ounces during the same space of time, and varied between twelve and twenty-four ounces for several months. During the last forty-eight hours of her existence it increased to thirty-two ounces.

The specific gravity of the urine varied from 1.036 to 1.052, by Prout's urinometer. It may be remarked, that healthy urine, and of an amber colour, is about 1.026, by the same instrument: hence the density exceeded that of natural urine at the minimum by ten, and at the maximum by twenty-six, degrees.

Sixteen ounces of urine was inspissated: it weighed, with the evaporating dish, two and a half ounces and fifty grains; but the dish weighed one ounce and a quarter and seventy-six grains; therefore the weight of the inspissated fluid was one ounce, a drachm, a scruple, and fourteen grains. It was of the colour, taste, and consistency of treacle, and measured five drachms.

The quantity of opium taken from the 31st of May to the 14th of September was twelve hundred and twenty-three grains; averaging twelve grains in the twenty-four hours. The relief obtained from the use of this drug was thus expressed in a communication from the gentleman who attended the case with me: "I cannot refrain from expressing my opinion of the beneficial effects derived from the large doses of

opium, not only in palliating the cough, which latterly became troublesome, but also in preventing that exhaustion of the system under such irritating circumstances."

The tongue continued florid and moist till within a few days of her death, when it became white and dry and brown; the mouth also being aphthous. Latterly the pulmonary symptoms were more apparently developed, but the expectoration was scanty; an irritating cough being chiefly complained of, with œdema of the lower extremities, and occasional night perspirations.

The case was commenced on the twenty-eighth of March, and terminated on the fourteenth of September.

TABLE OF THE QUANTITY OF URINE PASSED.

<i>Date.</i>	<i>Urine.</i>	<i>Sp. Grav.</i>	<i>Date.</i>	<i>Urine.</i>	<i>Sp. Grav.</i>	<i>Date.</i>	<i>Urine.</i>	<i>Sp. Grav.</i>
March 28	oz. 70	1.041	May 11	oz. 12		June 24	oz. 14	
29	60		12	10		25	12	
30	50		13	12		26	12	
31	50		14	16	1.044	27	16	
April 1	40		15	10		28	12	
2	40	1.041	16	12		29	12	
3	40		17	10		30	14	1.052
4	48		18	12		July 1	12	
5	32		19	12		2	12	
6	24		20	8		3	12	
7	24		21	12	1.044	4	12	
8	28		22	12		5	12	
9	24	1.049	23	15		6	12	
10	16		24	12		7	12	
11	24		25	12		8	12	
12	12		26	12		9	20	
13	16	1.042	27	13		10	24	
14	16		28	14		11	16	
15	16		29	12		12	12	
16	18		30	14		13	16	
17	16	1.044	31	12		14	16	
18	16		June 1	13	1.048	15	16	
19	16		2	12		16	18	
20	16		3	12		17	20	
21	16		4	11		18	17	
22	16		5	12		19	16	
23	20		6	14		20	16	
24	14		7	14		21	18	
25	16		8	18		22	16	
26	16		9	18		23	14	
27	16		10	18		24	16	
28	16		11	18		25	16	1.052
29	16		12	16		26	16	
30	16	1.044	13	12		27	24	
May 1	12		14	12		28	16	
2	12		15	12		29	16	
3	16		16	12		30	14	
4	16		17	12		31	16	
5	12		18	12		August 1	18	
6	12		19	12		2	20	
7	13	1.036	20	16		3	16	
8	12		21	14		4	17	
9	12		22	12		5	16	
10	12		23	14		6	16	

<i>Date.</i>	<i>Urine.</i>	<i>Sp.</i> <i>Grav.</i>	<i>Date.</i>	<i>Urine.</i>	<i>Sp.</i> <i>Grav.</i>	<i>Date.</i>	<i>Urine.</i>	<i>Sp.</i> <i>Grav.</i>
August 7	oz. 20		Aug. 20	oz. 8		Sept. 2	oz. 16	
8	24		21	16		3	16	
9	24		22	16		4	20	
10	10		23	12		5	20	
11	18		24	12		6	24	
12	18		25	12		7	28	
13	12		26	16		8	24	
14	12		27	12		9	20	
15	16		28	16		10	16	
16	20		29	24		11	20	
17	12		30	20		12	16	
18	8		31	20		13	32	
19	8	1.052	Sept. 1	18		14	32	

THE END.

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